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(54) NEW AMINO ACID DERIVATIVE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound useful as a chemokine receptor antagonist capable of inhibiting diseases caused by the chemokine such as interleukin 8 or MIP-1  $\alpha$ .

SOLUTION: This compound is represented by the formula; R1-X1-ph-X2-A-Y-R2 [A is D or L-Arg, Lys or the like; X1 is NH, O or the like; X2 is absent, SO<sub>2</sub> or the like; Y is S, O or the like; R1 and R2 are each a 12-30C straight-chain alkyl, cholesteryl or the like], e.g. 2-(isopropylcarbamoyl)-benzoyl-L-arginine-n-hexadecylamide. The

compound is obtained by condensing, e.g. an N-terminal protected amino acid with a compound represented by the formula;  $R_2-Y-H$ , then removing the N-terminal protecting group, condensing the resultant compound represented by the formula;  $A'-Y-R_2$  ( $A'$  is an amino acid having the protected side chain) with a compound represented by the formula;  $R_1X_1-ph-X_2-Z$  ( $Z$  is a halogen or hydroxyl group) and prepared by condensing a compound represented by the formula;  $R_1-X_1-Z$  with a compound represented by the formula;  $X_1-ph-X_2-OR_4$  ( $R_4$  is a protecting group) and subsequently deprotecting the obtained compound and further removing the side chain protecting group of the amino acid.

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#### LEGAL STATUS

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